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(54) Title: PROCESS FOR THE PRODUCTION OF AN ISOTROPIC POLYMERIC NETWORK

(57) Abstract: The present invention relates to a process for the production of an isotropic polymeric network comprising multifunctional molecules with a functionality, n, of at least 5 by contacting in a solvent an amount of the multifunctional molecules with an amount of a coupling agent, whereby through supramolecular chemistry a bond between the multifunctional molecule, and the coupling agent is formed. The invention furthermore relates to an isotropic polymeric network with a density lower than 1300 kg/m³ and a specific Young's modulus of at least 0.007 GPa M³/kg, shaped articles hereof and the use of the isotropic polymeric network as construction material.

WO 2004/111110 A1